Machine Learning Assignment

1). D) Both A And B

2). A) Linear Regression Is Sensitive To Outliers

3). B) Negative

4). B) Correlation

5). C) Low Bias And High Variance

6). B) Predictive Modal

7). D) Regularization

8). D) Smote

9). A) Tpr And Fpr

10). B) False

11). A) Construction Bag Of Words From A Email

12). A) We Don’t Have To Choose The Learning Rate. & B) It Becomes Slow When Number Of Features Is Very Large.

13). Regularization Is Technique Used In Machine Learning To Avoid Overfitting Or Under Fitting .It Improve The Generalization Performance Of A Model , It Occurs When A Model Fill Too Closely With Training Data But Perform Poorly On New Data Or You Can Say Test Data. This Technique Involves Adding A Penalty Term To The Objective Function That The Model Is Trying To Minimize During Training. The Penalty Term Encourages The Model To Have Smaller Weights Or Coefficients For The Features, Which Reduces The Complexity Of The Model And Helps To Avoid Overfitting.

14). There Are Two Regularization Algorithm Is Used Mostly

1) Lasso (Also Known As L1 Technique)

2) Ridge (Also Known As L2 Technique)

15). The Term "Error" In Linear Regression Refer As Difference Between The Actual Values Of The Dependent Variable And The Predicted Values Of The Dependent Variable Based On The Regression Equation.(Simply You Can Say That Difference Of Actual – Predicted Value Is Error)